

**WHAT IS CLAIMED IS:**

1. A structurally sealed heat sink comprising:

5 a main body having a chamber inside, a capillary layer disposed around a peripheral surface of said chamber, at least one opening formed for a predetermined depth, and a peripheral wall formed around said opening for a predetermined height;

at least one sealing member being the same with said opening in number and having an intersection intersected with said opening for the predetermined depth, a solder ditch being formed between said sealing member and said main body, an annular  
10 groove being formed between said peripheral wall and an outer periphery of said sealing member; and

at least one solder unit being the same with said opening in number and disposed in said solder ditch.

15 2. The heat sink as defined in claim 1, wherein said solder ditch is recessed around an end of said opening of said main body.

3. The heat sink as defined in claim 1, wherein said solder ditch is recessed around a periphery of said sealing member.

20

4. The heat sink as defined in claim 1, wherein said annular groove is recessed around a periphery of said sealing member.

5. The heat sink as defined in claim 1, wherein said annular groove is recessed  
25 on said main body.

6. The heat sink as defined in claim 1, wherein said main body is a metallic block; said sealing member is a heat pipe having a free end mounted to said opening of said main body.

5

7. The heat sink as defined in claim 1, wherein said main body is a metallic block; said sealing member is a stopping barrel member mounted to said opening of said main body.

10 8. The heat sink as defined in claim 1, wherein said main body is a heat pipe; said sealing member is a piston barrel mounted to said opening of said main body.

9. The heat sink as defined in claim 1, wherein said main body is a heat pipe; said sealing member is a sleeve fitted to said opening of said main body.

15